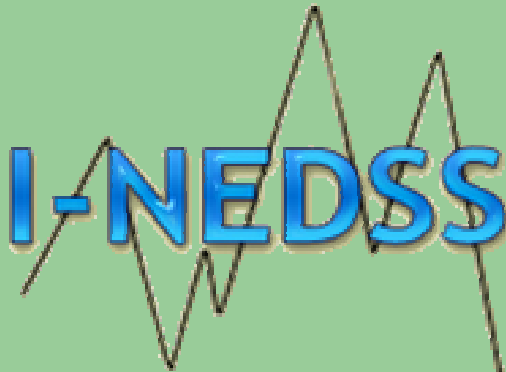


Illinois National Electronic Disease Surveillance System PHIN 2005 Conference May 11, 2005



Illinois Department of Public Health

Judy Kauerauf, I-NEDSS Administrator
Infectious Diseases

Sree Nair, Project Lead
Integrated Software Specialist

Presentation Outline

- Review I-NEDSS Goals & Architecture
- Provide an Update on Implementation & Development
- Demonstrate Release 4.0
 - Showing Provider Reporting
 - ELR from State Lab
 - Public Health Management of Cases
 - iDetect
 - I-NEDSS Reports
- Question and Answer



I-NEDSS Guiding Principles

- Easy and quick
- Cost efficient
- One system, not multiple
- Complete
- Not drastically different
- Allows flexible reporting features
- Helps us do our jobs more efficiently



Development Process: User Input, Feedback & Change Control Board

- **Analysis with Program (Subject Matter Experts)**
- **Advisory Groups**
 - I-NEDSS Executive Steering Committee
 - Division of Infectious Diseases I-NEDSS Advisory Panel
 - LHD I-NEDSS Advisory Panel
- **System Coding, Testing & Maintenance**
 - Developers: Integrated Software Specialists & Pixel
- **Change Control Board**



Illinois National Electronic Disease Surveillance System

- Built according to CDC design recommendations (Java J2EE)
- Browser-based
- Accessible from the Internet
- Username/Password protected



Software Development

- WebSphere Studio Application Developer
- Rational Enterprise Suite for application development management
- J2EE (Java 2 Enterprise Edition)
- Java Struts
- ILOG JRules rules engine integrated in code

I-NEDSS

Specialized Software

- Geographic Information System (GIS)
 - ArcIMS
 - ArcGIS
 - ArcSDE
- Business Intelligence Products
 - Business Objects
 - ILOG JRules
- VMware



I-NEDSS Current Functionality

- **Provider Reporting**
- **Local Health Department Morbidity Reporting**
- **Complete Disease Modules (PAM) for:**
 - Enteric Diseases
 - Vaccine Preventable Diseases
 - CNS Non-Bacterial Diseases/Arboviruses

I-NEDSS Current Functionality (continued)

- **Ad Hoc Reporting with Legacy Databases**
- **Electronic Laboratory Reporting of Arbovirus Test Results from the state lab**

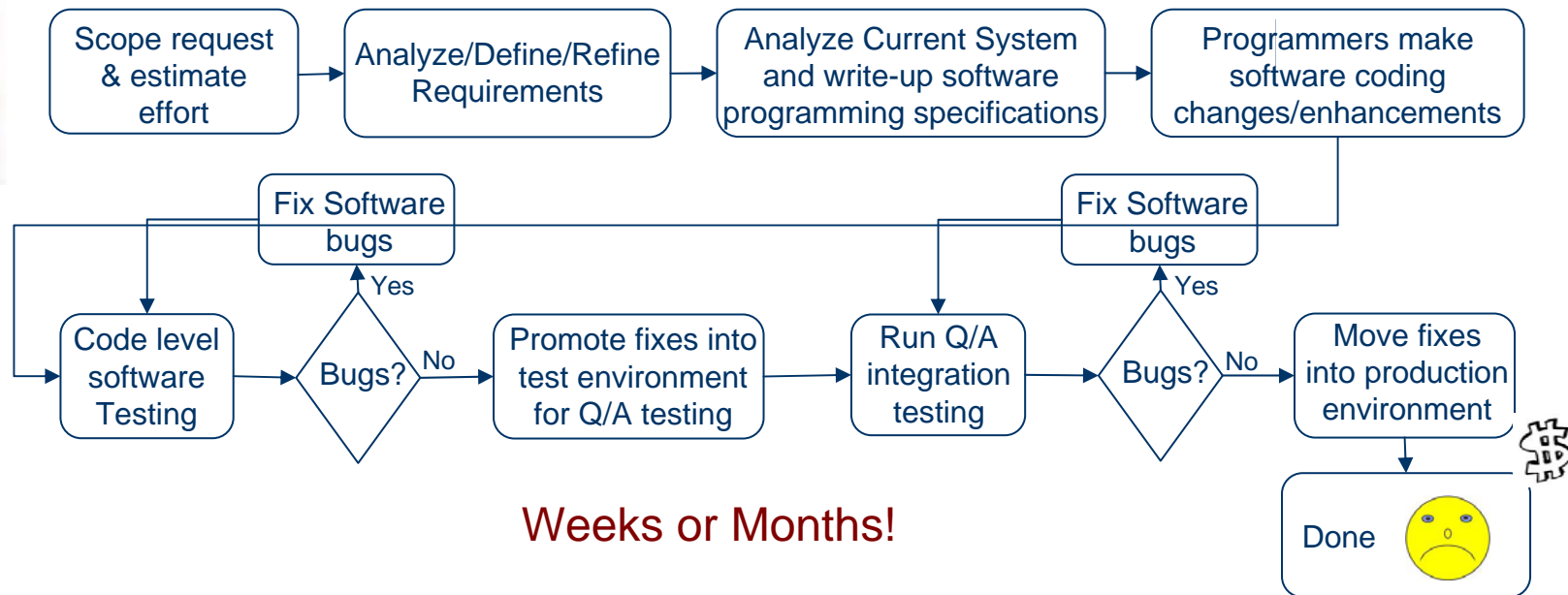


What is iDetect?

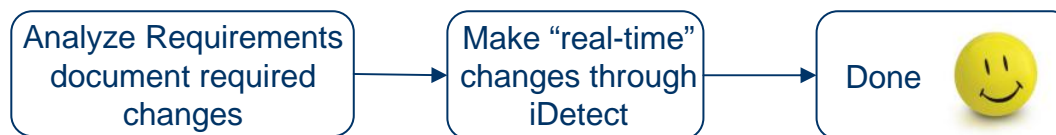
- A true solution-set for Program and Development teams
- A unique and powerful technology solution that enables the PHIN vision to be a reality
- A reusable PHIN – NEDSS solution framework that allows rapid development and maintenance and ability to respond quickly to change – with minimal IT involvement
- A NEDSS – PHIN Solution Framework that enables State and Local Public Health Departments and PHIN Partners to provide emergency response to contain outbreaks and prevent the spread of disease – statewide
- Capable of building other case management centric web applications quickly

Comparing - the Power of iDetect

The Traditional IT “Request to Completion” Project Life Cycle:



With iDetect™:

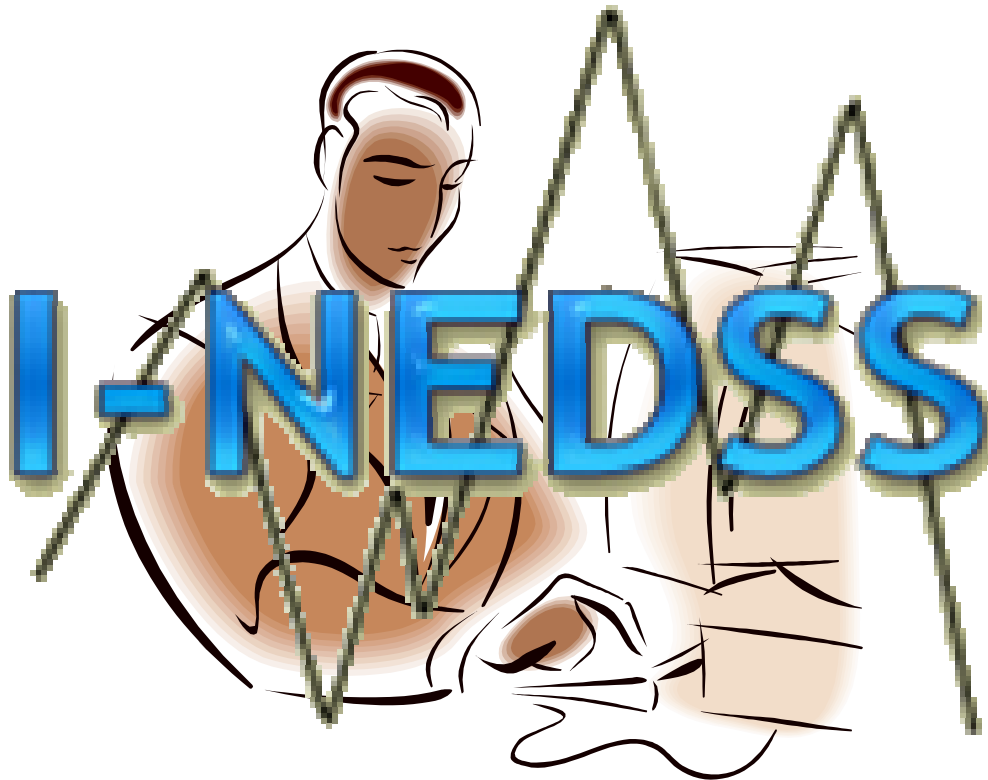


iDetect Capability

Changes that could be done without traditional IT involvement and without bringing the production system down!!

- Change/Add New Diseases
- Change/Add Values to drop down
- Change/Add Question to a page
- Change/Add Screens
- Change/Add Menu
- Change/Add Security Role Access to pages
- Change/Add Error Messages
- Change/Add Rule Validation
- Associate Error message to rule validation
- Ability to react to change quickly

I-NEDSS Demonstration



Lessons Learned

- Don't rush analysis
- Document, document, document
- Build prototypes
- Address all user issues at all user levels
- Manage changes
- Have a clear plan
- Build iteratively
- Promote and market success

